



Holzmacher, McLendon & Murrell, P.C. • H2M Associates, Inc.
H2M Construction Management, Inc. • H2M Labs, Inc.



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April 7, 1999

Drew B. Bennett, P.E., Manager
Environmental Technology & Compliance
Integrated Systems & Aerostructures Sector
Northrop Grumman Corporation
MS: D08-001
Bethpage, NY 11714-3583



APR 1999

ENVIRONMENTAL
TECHNOLOGY &
COMPLIANCE

Re: Plant 03, Location JJ-27 – Soil Remediation of UIC Feature
105 Acre NAVY Site
Bethpage, New York
Northrop Grumman Corporation Contract No. 99-92187 OBP
H2M Job No. NOGR 9801

Dear Mr. Bennett:

As you are aware, a floor drain designated as location JJ-27, within the Plant 03 facility, was recently remediated for a second time as a result of non-compliant endpoint sample analysis. Provided herein is a summary of the remediation activity to date and post excavation sample analytical results.

The floor drain in question is located within a condensate pit near column JJ-27 at the Plant 03 facility which is currently owned by the United States Navy. Subsurface soils were initially excavated through the floor drain in the bottom of the pit on August 18, 1998. On August 18, 1998, an H2M subcontractor utilized a vactor truck to remove 4 feet of subsurface soils. An endpoint sample was collected at 4 to 5 feet below the bottom slab of the steam pit and transferred to H2M labs, Inc. for analysis for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), RCRA metals and total petroleum hydrocarbons (TPH) as required by Nassau County Department of Health (NCDH) and United States Environmental Protection Agency (USEPA) UIC closure guidelines. Laboratory results indicated that all parameters were below NYSDEC Technical and Administrative Guidance Memorandum (TAGM) Soil Cleanup Objectives with the exception of silver. The silver concentration in the endpoint soil sample was detected at 112 mg/kg, which is greater than the soil cleanup objective of 2 mg/kg and the eastern background concentration limit of 3.9 mg/kg.

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Northrop Grumman Corporation included these analytical results in an August 26, 1998 letter to NCDH requesting that no further remedial action be required. The letter was responded to by the USEPA who indicated that additional remedial activity would be necessary before they would approve closure of the structure.

On March 16, 1999, H2M personnel and an environmental subcontractor, Able Environmental Services, Inc., mobilized at location JJ-27 and removed an additional 4 feet of soil, through the floor drain opening, using a vactor truck. An endpoint sample was collected at approximately eight feet below the base of the pit and was analyzed at H2M Labs for silver. The endpoint sampling activity was observed by Mr. John Lovejoy of the NCDH. Analytical results indicated that the silver concentration in the endpoint sample is <1.02 mg/kg which is below the NYSDEC TAGM limit. A copy of the laboratory report is attached herewith.

Considering the above, it is our opinion that no further remedial action is required at location JJ-27. Following approval by NCDH, final closure of the structure will entail backfilling the structure with clean fill and capping with at least six inches of concrete.

If you should have any questions, please do not hesitate to contact the undersigned at (516) 756-8000 extension 1623.

Very truly yours,

HOLZMACHER, McLENDON & MURRELL, P.C.



Philip J. Schade, P.E.
Project Manager

cc: Gary J. Miller, P.E./ H2M

H2M LABS, INC.

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N.Y. 11747
NYSDOH ID# 10478

LAB NO: 9907269

NORTHROP GRUMMAN CORP

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

BETHPAGE, NY

DATE COLLECTED. 03/16/99
TIME COLLECTED. 1205 HRS.
DATE RECEIVED.. 03/16/99
COLLECTED BY... SEH03
PROJECT NO..... NOGR9801

POINT NO:
LOCATION: JJ-27
REMARKS:

PARAMETER (S)

RESULTS UNITS

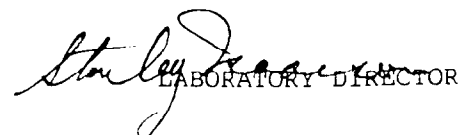
SILVER
TOTAL SOLIDS

<1.02 mg/kg
98.2 %

COPIES TO: PJS

DATE ISSUED 03/25/99

ORIGINAL


LABORATORY DIRECTOR